AMENDMENTS TO THE SPECIFICATION

On page 36, lines 22-29, please replace the paragraph beginning on line 22 and ending on line 29 with the following amended paragraph:

The sequence for Kv3.4a is in Gene Bank under accession number X62841 (SEQ.ID NO:6; gtgcgcttct ctgtctttct ggggttgggg ggggcgtgtc cccggcccgg agcatecttg tgcttgcctc aaccttctga gaccceggac ccettggatt gagteetega ecctggtett caccteetge etcecetagg ttetteetge caaateecaa ecacetgtge accacaaaaa gccaactett cetgeteega gccceggggg ggtggggtgg gggggaggca ggggcagage cactetgcag aaggggccgc caccacctcc tgcctcctcc tectccacca cctcctcctc cttctcgtct cctcccctc cccgttctga cgctgcctcc ttgggaaggg tgtttggagg gcagcggccg ccccaagccg gagccccgca gcgcttctta tgatcagctc ggtgtgtgtc tectectace gegggegeaa gteggggaac aageeteegt ceaaaacatg tetgaaggag gagatggeea agggegagge gteggagaag atcateatea aegtgggegg eaegegacat gagacetace geageaeeet gegeaeeeta eegggeaeee gccttgcctg gctggcggat cccgacggcg ggggtcggcc agagtcggat ggcggcggtg caggcagcag cggcagcagc ggcggcggcg ggggctgtga gttcttcttt gatcggcacc cgggtgtttt tgcctatgtg ctcaactact accgcacgg caagetgeat tgccccgcag acgtetgtgg geetetettt gaggaagage teaetttetg gggtategat gagacagatg tggaaccctg ctgctggatg acctaccggc agcaccgcga tgctgaagag gcactggaca tettcgagag cccggacggg ggcggggtg gcgcagggcc cggcgacgag gctggagacg atgagcggga gttggccttg cagcgcctgg gcccccatga aggaggetet ggccetggtg etgggteegg gggttgeegt ggetggeage eccgaatgtg ggegetette gaggaecegt acteateccg ggcggccagg gtggtagect ttgeetetet ettetteate ttggteteea ttaceacett etgeetggag acceaegagg cetteaacat tgacegaaat gtgacggaga tecacegggt agggaatate accagegtge getteeggeg ggaggtagaa acagaaccca ttcttaccta catcgagggc gtgtgcgtga tgtggttcac tctagagttc ctggttcgca ttgtgtgctg ccctgatacg ttggactttg tcaagaacct gctcaacatc atcgactttg tggccatctt gcccttttac ctggaggtgg gattgagtgg cctgtcatcc aaggeagete gagatgtget gggttteetg egtgtggtge getttgtaeg eatectgegg atetteaage teacaegeea ctttgtgggg ctgcgtgtgc tcggccacac actccgggcc agcaccaacg agttcctgct gcttatcatc ttcctggccc tgggtgtgct catctttgcc accatgatct attatgctga gcgaatcggg gccaggccat ctgacccacg gggcaatgac cacaccgact tcaagaacat ccccatcggt ttctggtggg ctgtggtcac catgacaacg cttggctatg gggacatgta tectaagaca tegteaggaa teetegtege teetetet ecactegete etgteetaac catteecate ectetecte teateeteaa taactttggt atgtactact ccctggctat ggccaagcag aagcttccca agaaacgaaa gaagcatgta ccacggccac

cccagcttga gtcacccatt tactgcaagt ctgaggagac ttcaccccgg gacagcacct acagtgacac cagcccccct gcccgggaag agggtatggt cgagaggaaa cgagcagact ccaagcagaa tggtgacgct aatgcggtgc tgtccgatga ggagggaget ggcctcaccc acccctggc ctcggccccc acccctgaag agcgtcgagc cctgagacgc tcaggcacac gggacagaaa caagaaggca gctgcctgct tcctgctcag tgctggggac tatgcctgtg ctgatggcag tgtccagaaa gaagecagte ttgagecgaa agegtgegte ecagtgetet acacetgtge tetttaaaca cagagacetg ecaagaegee ctctcgtcca actatgccca tgctgaagtc ctcaccctct cttagagcgg caccaacgtg agaaagacag acagacagaa agccagage ttaggaaaac tetggaaccc aggcacgaat etttgetgg gaaagatate ettgtttgca caagactggt ggaaaaatct cccatgcaac tctcagggcc cagagccatc tgggtctgat actctgttct actgtacatt gaagagacat atatgcacat atagtateta tatteataea taetatatae tettetetet agtgeacete etaetegteg tetetettea tegttagget atgteteeca agtectete ceaccetett tecceacee etetteette atggattgtt tettetgace atgtttttgg agtgteccag gagaggtata cetgggacet gecetecag etgggtggte ceaggetget etcaettggg ggtgteeeet gecageaggt ggeetgetga agreed agreed agreed agreed agreed agreed to the sequence for Kv3.4c is identical to the Kv3.4a sequence except that 62 bp (position 2222-2283) of Kv3.4a are absent in Kv3.4c. As a result of this alternative splicing, the first 608 amino acids of both variants are identical, but the last 17 (for variant a) and 19 (for variant c) amino acids are completely different. Both variants are described by Rudy and colleagues in Veaga-Saenz de Miera E. et al. (1993) Shaw-related K channels in mammals. in Handbook of Membrane Channels: Molecular and Cellular Physiology. (Peracchia C, ed. Academic Press, Orlando) pp 41-78.